LMA District Cover Sheet

Spring 2018 Levee Inspection Results

Reclamation District No. 0787 Fair

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				
	** Non-receipt of Summ Reports may effect o			
FALL INSPECTIONS: The overall maintena	d using the same crite ance rating shown abo	ria in the spring and i	n the fall.	ficiencies identified
Comments				

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Reclamation District No. 0787 Fair

Waterway	Bank	Unit Miles
Unit No. 01 Colusa Basin Drain	Left	4.45

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/16/2018 - 3/16/2018			
DWR Inspector	Zach Jojola			
Accompanied By	Roger Cornwell Rivergarden Farms RD 787			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0787 Fair

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	03/16/2018 03/16/2018	Zach Jojola

LM Start		Rating **	Α	Issue No.		7	
LM End		Issue Type +	Ма	Location *		N/A	
Earthen Levee			GPS La	atitud	le/Longitude		
Category				Start		End	
Item	Emergency Supplies & Equipment				0		0
item					0		0
DWR ID	DWR_RD0	787_01_s _ 201	3_7				
		Comn	nent Cod	de			
		Inspecto	or Comn	nent			
RD 787 sł	nares flood	resources wit	h RD 10	8 with a sto	ockpi	ile of flood	
response materials.							

No Photos

LM Start		Rating **	Α	Issue No.		8	
LM End		Issue Type +	Ma	Location *		N/A	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
ltem	Operations & Maintenance				0		0
item	Item Manuals						0
DWR ID	DWR_RD0	787_01_s _ 201	3_8				
		Comn	nent Cod	le			

No Photos

Inspector Comment RD 787 is current with O&M manuals.

LM Start		Rating **	Α	Issue No.		10		
LM End		Issue Type +	Ma	Location *		N/A		
Category Earthen Levee				GPS La	atitud	le/Longitude		
Calegory	· ,			Start		End		
Itom	Flood Preparedness & Training				0		0	
Item					0		0	
DWR ID	DWR_RD0	787_01_s _ 201	2_10					
		Comn	nent Cod	le				
		Inspecto	or Comm	nent				

RD 787 works jointly with RD 108 on training and flood response.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0787 Fair

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	03/16/2018 03/16/2018	Zach Jojola

LM Start	0.04	Rating **	М	Issue No.		23
LM End	0.04	Issue Type +	En	Location *		
Catagony	Suppleme	GPS Latitude/Longitude				
Calegory	Category			Start		End
Item	DWR UC	IP Field Study		38.79915	9°	38.799159°
пеш				-121.72587	4°	-121.725874°
DWR ID						·

Comment Code

Inspector Comment

FS_ID:37585 DS_ID:22892 EP_NO: 9392

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.

FIELD_STRUCT_DESC: 36-inch concrete irrigation pipe through the levee, 17 feet below the crown. Slide gate in 36-inch standpipe on the waterside (WS). 24-inch pipe from standpipe to pump house mounted on steel structure in channel. (36-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9392, 1974 - River Garden Farms; pump structure and 24-inch steel pipe authorized under Permit No. 3878, 1962-River Farms Company of California). [Additional Reference(s): DWR Levee Logs, 1990]

FS Date: 6/10/2014

LM Start	0.04	Rating **	М	Issue No.	23 (cont)
LM End	0.04	Issue Type +	En	Location *	

Photo 1 of 3: UCIP_SP_2018_37585_68154.jpg



View of landward slope.

Photo 2 of 3: UCIP_SP_2018_37585_68153.jpg



View of landward side.

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0787 Fair

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	03/16/2018 03/16/2018	Zach Jojola

LM Start	0.04	Rating **	М	Issue No.		23 (cont)	
LM End	0.04	Issue Type +	En	Location *			
Category	Suppleme		GPS Latitude/Longitude				
Calegory	gory			Start		End	
Item	DWR UC	IP Field Study		38.79915	9°	38.799159	0
Item					4°	-121.725874	0
DWR ID							

Comment Code

Inspector Comment

FS_ID:37585 DS_ID:22892 EP_NO: 9392

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FS Date: 6/10/2014

Photo 3 of 3: UCIP_SP_2018_37585_68156.jpg

View of waterward side.

LM Start	0.39	Rating **	A/W	Issue No.	1	
LM End	0.50	Issue Type +	Ma	Location *	WS	
Supplemental			GPS Latitude/Longitude			
Category			Start		End	
Item		ACE Erosion S	Survey,	38.79593	31 °	38.795268 °
пеш	DRAFT			-121.73062	27 °	-121.732566 °
DWR ID DWR_RD0787_01_s _ 2016_1						
Comment Code						

Inspector Comment

2011 - Large scallops throughout the entire reach. Toe scour due to tree pop-outs, resulting in a steepening slope. The reduced resistive forces plus clay levee may increase the loading. Additional erosion due to human use. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: CBD_0-5_L]

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0787 Fair

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	03/16/2018 03/16/2018	Zach Jojola

LM Start	0.48	Rating **	С	Issue No.		6
LM End	0.48	Issue Type +	En	Location *		WS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Category				Start		End
Item	Encroach	ments		38.7954	09°	38.795409°
пеш				-121.7320	-121.732092 °	
DWR ID DWR_RD0787_01_s _ 2017_6						
		Comn	nent Cod	le		
GA : Garba	age					
		Inspecto	or Comm	ent		

No Photos

Rating ** Issue No. LM Start 0.60 20 0.60 Issue Type + Ma Location * WS LM End Earthen Levee GPS Latitude/Longitude Category Encroachments 38.795492° 38.795492° Item -121.734410 ° -121.734410 ° DWR ID DWR RD0787 01 f 2017 20 Comment Code

No Photos

TR : Tree or limb

Inspector Comment

Fallen tree on waterside slope.

LM Start	0.67	Rating **	М	Issue No.	2		
LM End	0.85	Issue Type +	Ma	Location *	WS		
Category	Suppleme	ental		GPS Latitude/Longitude			
Category			Start		End		
Item		ACE Erosion S	Survey,	38.79548	6°	38.796225 °	
пеш	DRAFT			-121.735647 ° -121.738		-121.738902°	
DWR ID DWR_RD0787_01_s _ 2016_2							
Comment Code							

Inspector Comment

2011 - Large scallops throughout the entire reach. Toe scour due to tree pop-outs, resulting in a steepening slope. The reduced resistive forces plus clay levee may increase the loading. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: CBD_0-9_L]

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side	A : Acceptable M : Minimally Acceptable	N : Not Inspected/Rated C : Corrected	Ma : Maintenance Deficiency Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0787 Fair

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	03/16/2018 03/16/2018	Zach Jojola

LM Start	0.71	Rating **	М	Issue No.		22	
LM End	0.71	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Encroach	ments		38.7956	85°	38.795685 °	
пеш				-121.736317° -121.736			
DWR ID DWR_RD0787_01_s _ 2018_22							
		Comn	nent Cod	le			
PR : Pruni	ngs						
			_				
		Inspecto	or Comm	nent			

No Photos

LM Start	0.73	Rating **	М	Issue No.		4
LM End	0.86	Issue Type +	Ma	Location *		
Category Supplemental				GPS Latitude/Longitude		
Calegory				Start		End
Item	2017 Stor	m Damage		38.79576	9°	38.796340°
пеш				-121.73679	8°	-121.738956 °
DWR ID	DWR_RD0	787_01_f _ 201	7_4			

Comment Code

Inspector Comment Levee Evaluation Comments

Description: Site ID No:182

Site Designation:RD 787-01 Repair Type: Erosion Rating:Area of Concern Field Date:7/18/2017

Notes: Sloughing from 2017 storms.



N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0787 Fair

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	03/16/2018 03/16/2018	Zach Jojola

LM Start	0.73	Rating **	М	Issue No.		4 (cont)
LM End	0.86	Issue Type +	Ma	Location *		
Category	Suppleme	ental		GPS Latitude/Longitude		
Calegory				Start		End
Item	2017 Stor	m Damage		38.7957	69°	38.796340°
пеш				-121.7367	-121.738956 °	
DWR ID DWR_RD0787_01_f _ 2017_4						
Comment Code						

Inspector Comment

Levee Evaluation Comments

Description: Site ID No:182

Site Designation:RD 787-01 Repair Type: Erosion Rating:Area of Concern Field Date:7/18/2017

Notes: Sloughing from 2017 storms.

LM Start	0.73	Rating **	М	Issue No.	4 (cont)
LM End	0.86	Issue Type +	Ма	Location *	



Photo 3 of 3: LEVAL_SP_2018_182_1523.jpg



N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0787 Fair

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	03/16/2018 03/16/2018	Zach Jojola

LM Start	0.73	Rating **	A/W	Issue No.	9		
LM End	0.73	Issue Type +	Ma	Location *	WS		
Catagoni Earthen Levee				GPS Latitude/Longitude			
Calegory	Category					End	
Item	Slope Sta	bility		38.7958	14°	38.795814°	
пеш				-121.73679	99°	-121.736799 °	
DWR ID DWR_RD0787_01_s _ 2017_9							
Comment Code							

S1 : Repair slope instability.

Inspector Comment

Multipel cracks visibile on a 50' section of the waterside slope.



View of slope stability location on waterside slope. Spring 2017.

LM Start	0.75	Rating **	A/W	Issue No.		12		
LM End	0.75	Issue Type +	Ma	Location *		WS		
Category	Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End		
Item	Slope Sta	bility		38.7958	91 °	38.795891	٥	
пеш				-121.7370	98 °	-121.737098	٥	
DWR ID	DWR ID DWR_RD0787_01_f _ 2017_12							

Comment Code

S1 : Repair slope instability.

Inspector Comment

50' crack beginning to develop on wateride slope. Recommend monitoring.



View of slope stability location on waterside slope. Spring 2017.

LM Start	0.77	Rating **	A/W	Issue No.		15		
LM End	0.77	Issue Type +	Ма	Location *		WS		
Category Earthen Levee				GPS Latitude/Longitude				
Calegory	Calegory					End		
Item	Slope Sta	bility		38.795996°		38.795996 °		
пеш				-121.73749	93 °	-121.737493 °		
DWR ID	DWR ID DWR_RD0787_01_s _ 2017_15							
	Comment Code							
C1 · Donoi	S1 : Danair clana instability							

S1: Repair slope instability.

Inspector Comment

50' slough section on waterside slope.



View of sloughing on waterside slope. Spring 2017.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0787 Fair

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	03/16/2018 03/16/2018	Zach Jojola

LM Start	0.78	Rating **	A/W	Issue No.		16	
LM End	0.78	Issue Type +	Ма	Location *	WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Slope Sta	bility		38.7960)42 °	38.796042 °	
пеш		-121.737661 ° -121.73766					
DWR ID DWR_RD0787_01_s _ 2017_16							
		Comn	nent Cod	le			
S1 : Repai	ir slope ins	tability.					
		Inspecto	or Comm	nent			
Sloughing on waterside slope.							



View of sloughing on waterside slope. Spring 2017.

LM Start	1.44	Rating **	С	Issue No.		5
LM End	1.47	Issue Type +	Ma	Location *		
Category	ental	GPS Latitude/Longitude				
Calegory				Start		End
Item	2017 Stor	m Damage			٥	38.801010°
пеш					0	-121.748380°
DWR ID	DWR_RD0	787_01_f _ 201	7_5			·
		_				

Comment Code

Inspector Comment

Levee Evaluation Comments Description:

Site ID No:212

Site Designation: USACE_CESPK_FAIR_2010_p_0044

Repair Type: Stability Rating:Critical Field Date:6/2/2017

Notes: Vertical cut at 22ft from the crown hinge, vertical drop 6', waterside levee slope rotational slip, mass extends 12' into the channel.

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0787 Fair

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	03/16/2018 03/16/2018	Zach Jojola

LM Start	1.73	Rating **	С	Issue No.		11		
LM End	1.73	Issue Type +	Ma	Location *		WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Encroach	ments		38.8026	93°	38.802693 °		
пеш				-121.752672 °		-121.752672 °		
DWR ID	DWR_RD0	787_01_f _ 201	6_11					
		Comn	nent Cod	le				
GA : Garba	age							
		Inspecto	or Comm	nent				

No Photos

LM Start	1.73	Rating **	М	Issue No.		21		
LM End	1.73	Issue Type +	Ma	Location *		CR		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Category				Start		End		
Item	Encroach	ments		38.8027	21 °	38.802721		
Item				-121.7526	80°	-121.752680		
DWR ID	DWR_RD0	787_01_s _ 201	8_21					
		Comn	nent Cod	de				
PR : Pruni	ngs							
		Inspecto	or Comm	nent				

No Photos

LM Start	2.48	Rating **	М	Issue No.	19		
LM End	2.48	Issue Type +	Ма	Location *	WS		
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Encroachments			38.807365°		38.807365 °	
item				-121.7653	64 °	-121.765364 °	
DWR ID	DWR_RD0787_01_s _ 2018_19						
Comment Code							
GA : Garbage							
Inspector Comment							
TV on waterside slope.							

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0787 Fair

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	03/16/2018 03/16/2018	Zach Jojola

LM Start	3.28	Rating **	С	Issue No.		18
LM End	3.28	Issue Type +	En	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
Category				Start		End
Item	Encroachments			38.814043 °		38.814043 °
пеш				-121.777376 °		-121.777376 °
DWR ID	/R ID DWR_RD0787_01_f _ 2017_18					
Comment Code						
GA: Garbage						
_						
Inspector Comment						

No Photos

LM Start	3.37	Rating **	M	Issue No.		17	
LM End	3.37	Issue Type +	Ма	Location *	LS		
Category	Earthen Levee			GPS Latitude/Longitude			
Category				Start		End	
Item	Encroachments			38.814743 °		38.814743 °	
пеш				-121.7787	89°	-121.778789 °	
DWR ID	DWR_RD0787_01_s _ 2018_17						
Comment Code							
GA : Garbage							
Inspector Comment							
Speakers on landside slope.							

Photo 1 of 1 : SP_2018_RD0787_212_17_20180316_00022.jpg



View of speakers on the landside slope. Spring 2018.